

19970807.qrp v00_n811.qrs.970807

>From ???@??? Fri Aug 08 09:25:43 1997
Date: Thu, 7 Aug 1997 19:03:10 EDT
Subject: QRP-L digest 811
Message-Id: <97Aug7.190508edt.35456-65288+203@fidoi.cc.Lehigh.EDU>

QRP-L Digest 811

Topics covered in this issue include:

- 1) [24433] Post Script Help
by Brad Mugleston <bmug@gw1.com>
- 2) [24434] MFJ
by Brad Mugleston <bmug@gw1.com>
- 3) [24435] For Sale
by n1tgz@juno.com (Gregory P Fox)
- 4) [24436] Re: Solar Electric, Inc.?
by Ken Lopez <kjlopez@earthlink.net>
- 5) [24437] Re: SGC 2020
by "Thomas J.McCuen" <TMcCuen@compuserve.com>
- 6) [24438] Help - unsubscribe
by "Captain Dick" <captaindick@acmenet.com>
- 7) [24439] Re: SGC 2020
by James Parsons <k5rov@worldnet.att.net>
- 8) [24440] Relay Driver Part?
by "Brian K. Short" <shortckt@primenet.com>
- 9) [24441] Re: SGC 2020
by Jack Meadows <jackmead@getnet.com>
- 10) [24442] One of 6 Selector?
by "Brian K. Short" <shortckt@primenet.com>
- 11) [24443] (no subject)
by Jess Gypin <jessqrp@concentric.net>
- 12) [24444] Re: SGC 2020
by James Parsons <k5rov@worldnet.att.net>
- 13) [24445] TICK Keyer
by w_hill@ns.net (Ward Hill)
- 14) [24446] For Sale
by Ken Lopez <kjlopez@earthlink.net>
- 15) [24447] Re: [HomeBrew] cutting pcb material
by "Brian K. Short" <shortckt@primenet.com>
- 16) [24448] Re: TICK Keyer
by John Sullivan <sullivjd@sound.net>
- 17) [24449] Re: [HomeBrew] cutting pcb material
by Multi-Volti Devices <MULTI-VOLTI@softhouse.com>
- 18) [24450] HWA-9
by Multi-Volti Devices <MULTI-VOLTI@softhouse.com>
- 19) [24451] FW5IW

by tayloe_d@juno.com (Daniel R Tayloe)

20) [24452] Re: FW5IW
by Kory Hamzeh <kory@avatar.com>

21) [24453] letter stations
by "Phil, K6LS" <k6ls@qsl.net>

22) [24454] L5 !
by ROYGREGSON@aol.com

23) [24455] Re: Q multiplier
by Raventhorne <jelder@ix.netcom.com>

24) [24456] Re: Altoids Alert
by Raventhorne <jelder@ix.netcom.com>

25) [24457] Re: Relay Driver Part?
by Raventhorne <jelder@ix.netcom.com>

26) [24458] Re: FW5IW
by Joe Gervais <vole@primenet.com>

27) [24459] 30,000 10pF. caps.....
by n5inz@juno.com (John M Andrews)

28) [24460] Altoids: QRP-L Tradition or Torture??!!
by wpc@west.net (John Roblin)

29) [24461] MFJ -Reply
by Paul Cereste <cereste@myapc.com>

30) [24462] In re HB pc cutting, treason
by MNHopkins@aol.com

31) [24463] cutting pcb material
by Bigbob97@aol.com

32) [24464] cutting pcb
by "Rick LaBanca" <rlabanca@eps.inso.com>

33) [24465] Re: [HomeBrew] cutting pcb material
by Chris Trask <ctrask@primenet.com>

34) [24466] Re: 30,000 10pF. caps.....
by Chris Trask <ctrask@primenet.com>

35) [24467] Altoids: Alternate Applications
by Chris Trask <ctrask@primenet.com>

36) [24468] Sunspot Graphs
by adams@chuck.dallas.sgi.com (Chuck Adams)

37) [24469] RE: CW training
by Larry East <w1hue@amsat.org>

38) [24470] Re: In re HB pc cutting, treason
by Monte Stark <ku7y@sage.dri.edu>

39) [24471] Re: In re HB pc cutting, treason
by Chris Cartwright <ccart@dns.vidtel.com>

40) [24472] Re: Help - unsubscribe
by Ed Loranger <we6w@qsl.net>

41) [24473] N.E. QRP Afield Sept. 20
by ac5am@juno.com (Robert L Stolzle)

42) [24474] Re: [HomeBrew] cutting pcb material
by Bob Okas <vintage@best.com>

43) [24475] QRP Certificates

by Steve Slavsky <sslavsky@CapAccess.org>
44) [24476] Re: [HomeBrew] cutting pcb material
by Steven Weber <kd1jv@moose.ncia.net>
45) [24477] Cutting PCB material
by "David D. Meacham" <ddm@datatamers.com>
46) [24478] Re: In re HB pc cutting, treason
by gsurrency@juno.com (Gary L L Surrency)
47) [24479] Re: In re HB pc cutting, treason
by Chris Trask <ctrask@primenet.com>
48) [24480] Post Script Thanks
by Brad Mugleston <bmug@gwl.com>
49) [24481] MFJ Help
by Brad Mugleston <bmug@gwl.com>
50) [24482] Re: Post Script Thanks
by Ed Loranger <we6w@qsl.net>
51) [24483] summer doldrums/scratch building
by PDouglas12@aol.com
52) [24484] Re: Altoids: QRP-L Tradition or Torture??!!
by w4bws@juno.com (Donald E Sanders)
53) [24485] Re: Broadband Amp
by w4bws@juno.com (Donald E Sanders)
54) [24486] Re: Mini-Yagi and 5 Watts Snags a VK4
by w4bws@juno.com (Donald E Sanders)
55) [24487] Re: Broadband Amp
by Ed Pacyna <pacyna@auratek.com>
56) [24488] WTB: INDEX COMPANION
by tahrens1@juno.com
57) [24489] Sierra Power - Thanks!!
by Jim Bennett <jbennett@ebmud.com>
58) [24490] Fox Hunting
by William Peloquin <williep@PIERCEMFG.COM>
59) [24491] QRP Kit Advice
by bill@taprov.com (Bill Cleveland)
60) [24492] Re: summer doldrums/scratch building
by Ed Loranger <we6w@qsl.net>
61) [24493] RE: [HomeBrew] cutting pcb material
by "Ed Manuel" <n5em-qrp@msn.com>
62) [24494] 38S Afloat!
by n4js@amsat.org
63) [24495] RE: [HomeBrew] cutting pcb material
by "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
64) [24496] Re: Broadband Amp
by Steven Weber <kd1jv@moose.ncia.net>
65) [24497] QRP from Oshkosh fly-in
by "William R. Moore" <wr.moore@worldnet.att.net>
66) [24498] Re: Broadband Amp
by Ed Pacyna <pacyna@auratek.com>
67) [24499] Re: Broadband Amp

by Ed Loranger <we6w@qsl.net>

Date: Wed, 6 Aug 1997 14:56:40 -0600
From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [24433] Post Script Help
Message-ID: <01BCA278.F36B4500@pps-pc10.gw1.com>
Content-Type: text

Gang,

About a year ago I wrote up something for this list that would let you print a Post Script file with out using ghost script or anything else. Now I can't remember how I did it. Anyone out there remember how I did it?

Thanks

Brad

Date: Wed, 6 Aug 1997 14:54:54 -0600
From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [24434] MFJ
Message-ID: <01BCA278.B515A0C0@pps-pc10.gw1.com>
Content-Type: text

Does anyone have MFJ's email address. The one I have in their manual bounces.

Thanks

de KB0ROL, Brad

Date: Wed, 06 Aug 1997 19:40:18 EDT
From: n1tgz@juno.com (Gregory P Fox)
To: qrp-1@Lehigh.EDU

Subject: [24435] For Sale

Message-ID: <19970806.193035.5447.1.n1tgz@juno.com>

Hi All, I know this is not QRP gear for sale but thought Id try...
Kenwood TS-530 s 160-10 meters plus WARC bands. Oh course u can turn it
down to 5 watts (HI HI). In absolute mint condition..\$375.00 and that
includes shipping.. May consider any reasonable offer, think this is fair
price fer its condition.. Need to drum up money fer a couple of kits, and
some ants,

Tnx fer the posting of this,, 72 & 73s

Greg N1TGZ #8444

Date: Wed, 06 Aug 1997 17:45:44 -0700
From: Ken Lopez <kjlopez@earthlink.net>
To: boice@bigfoot.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24436] Re: Solar Electric, Inc.?
Message-ID: <33E91ABB.314@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have dealt with Solar Electric for about four years now. Good prices,
good service, and they will often accept returns if the item is not what
you expected and is virtually unused with all original pachaging. I
recommend them from my personal experience.

Cheers,
Ken, N6TZV

Date: Wed, 6 Aug 1997 21:05:11 -0400
From: "Thomas J.McCuen" <TMcCuen@compuserve.com>
To: <qrp-1@Lehigh.EDU>
Subject: [24437] Re: SGC 2020
Message-ID: <199708062105_MC2-1C85-800@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Hi James,

Tks for the bad news re the SGC 2020....

I was hopeful that the 2020 would be release in Sept like orig stated.
Was looking to take it with me upstate NY the end of Sept. Oh well :=(

At least my order will not have to deal with the UPS strike by then.

73

Tom;aa2vk

Date: Wed, 6 Aug 1997 17:29:13 -0700
From: "Captain Dick" <captaindick@acmenet.com>
To: "QRP Radio List" <qrp-l@Lehigh.EDU>
Subject: [24438] Help - unsubscribe
Message-ID: <199708070139.SAA20234@premier1.premier1.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi;

Awhile ago I got on the digest version. I'm still finding that this list is just too big, too many messages to go through for my available time. I tried to unsubscribe in several different ways, but none are working... I think because I'm on the digest. Can anyone help me get unhooked?

Captain Dick
2631 NW 95th St.
Seattle, WA 98117
Home Page at: <http://www.acmenet.com/captaindick>

Date: Wed, 06 Aug 1997 20:54:57 -0500
From: James Parsons <k5rov@worldnet.att.net>
To: TMcCuen@CompuServe.COM
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24439] Re: SGC 2020
Message-ID: <33E92AF0.1DF6@worldnet.att.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thomas J.McCuen wrote:

>
> Hi James,
>
> Tks for the bad news re the SGC 2020....
>
> I was hopeful that the 2020 would be release in Sept like orig stated.
> Was looking to take it with me upstate NY the end of Sept. Oh well :(
>
> At least my order will not have to deal with the UPS strike by then.
>
> 73
> Tom;aa2vk

Hi, Tom..

Yes, its very disappointing having to wait for so long for the SG-2020.

I have been playing with 20 watts out of my rig, CW of course. I can do anything I can with my full power. I don't really care too much for pure QRP (forgive me, gang) because I love long rag-chews and they can be difficult with five watts or less. It seems that other stations love to run 100 watts right next to a QRP station, so I prefer the QRO of 20 watts.

I wish that some of the QRP manufacturers would make a rig that goes up to 20 watts; it sure would be a big help when the 4-5 watts gets difficult for long-winded guys like me.

Anyway, guess we will have to wait a while longer.

73

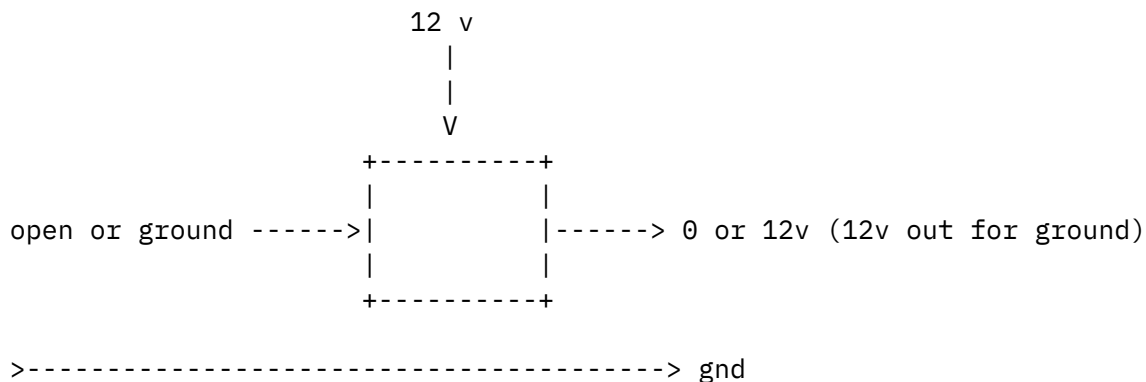
Jim, K5ROV

--

James (Jim), Parsons, K5ROV USAF, Ret.
k5rov@worldnet.att.net QCWA, NWQRP, Fists, ARRL
EX: W1RLA, K5FBB, K4FEO, SVOWN (CRETE), SVOWN (RHODES),
DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).
JOHN 3:16

Date: Thu, 07 Aug 1997 03:24:39 +0100
From: "Brian K. Short" <shortckt@primenet.com>
To: HomeBrew@QSL.Net
Subject: [24440] Relay Driver Part?
Message-ID: <3.0.1.32.19970807032439.0078fb6c@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm working on another small automatic antenna selection project
and need (3) 12v drivers as follows:



Anyone know a great part (I need 3 like circuits)?
Shall I just use PNP transistors? Suggestions?

73, Brian

"If you can't run with the big dogs, stay on the porch!"
Brian Short k7on@qsl.net <http://www.qsl.net/k7on>
1994 E Laguna Dr Tempe, Az 85282 (602)839-3484

Date: Wed, 6 Aug 1997 20:31:58 -0700 (MST)
From: Jack Meadows <jackmead@getnet.com>
To: James Parsons <k5rov@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24441] Re: SGC 2020
Message-ID: <Pine.BSI.3.93.970806202546.12456A-1000000@gn2.getnet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Jim,

You might keep your eye out for a good used Ten Tec Century 22 transceiver. It is cw only and has pwr adjust knob on front panel, zero to 20 watts. It also has built in swr meter and a variable audio filter. It's a real nice rag chew xcvr for the cw man. I use mine for that.

Best regards,
Jack W7QQQ

> Yes, its very disappointing having to wait for so long for the SG-2020.
>
> I have been playing with 20 watts out of my rig, CW of course. I can do
> anything I can with my full power. I don't really care too much for pure
> QRP (forgive me, gang) because I love long rag-chews and they can be
> difficult with five watts or less. It seems that other stations love to
> run 100 watts right next to a QRP station, so I prefer the QRO of 20
> watts.
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> to 20 watts; it sure would be a big help when the 4-5 watts gets
> difficult for long-winded guys like me.
>
> Anyway, guess we will have to wait a while longer.
>
> 73
>
> Jim, K5ROV
>
>
> --
>
> James (Jim), Parsons, K5ROV USAF, Ret.
> k5rov@worldnet.att.net QCWA, NWQRP, Fists, ARRL
> EX: W1RLA, K5FBB, K4FEO, SV0WN (CRETE), SV0WN (RHODES),
> DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).
> JOHN 3:16
>
>

Date: Thu, 07 Aug 1997 03:33:11 +0100
From: "Brian K. Short" <shortckt@primenet.com>
To: HomeBrew@QSL.Net

Subject: [24442] One of 6 Selector?
Message-ID: <3.0.1.32.19970807033311.006d3198@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm working on a control circuit for an automatic antenna tuner (ok, a 2kw automatic antenna tuner).

Anyway, I need a circuit to select and apply 12v to one (and only) one of 6 signal lines.

Obviously, a manual rotary switch would do the job, but usually these turn kinda hard and are "sequential access."

Anyone know of a good way to have 6 buttons that will do the desired job (activating with 12v one and only one selected line)?

Date: Wed, 06 Aug 1997 21:40:39 -0600
From: Jess Gypin <jessqrp@concentric.net>
To: qrp-1@Lehigh.EDU
Subject: [24443] (no subject)
Message-ID: <33E943B6.6EB407FC@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,

I hope that the propagation gods are smiling on you all! I had a pretty different contact last night. I was listening to the upper end of 30 meters, a place that I am not at often, and heard a CQ. From N1TFI. Pretty different. Same call as mine, just a different zone! I called the

guy back, N1TFI de N0TFI k. No answer. This was QRp with the OHR 400. I called again, this time all I got was a QRZ?? I switched over the TS140 and called again, only this time I said N1TFI N1TFI de N0TFI N0TFI BT Yes that really is my real call, N0TFI N0TFI BK. He answers back and we have a short chat. His name is Ron ans in VT. I have not heard him on 30

before and he is going along at about 13-15 words a minute. We exchange the usual rig and power and such. Pretty cool to hear my own call with a

different number in it.

Now for the antenna. As you all might recall, I have played antenna games on and off. I have nosey neighbors and cannot festoon my yard with

lots of aluminum or wire. I have up a Gap Titan and a push up mast at the back of the yard that used to support my 30 meter half square and the 80 meter inverted L. Well, with all of this talk about balanced feed

lines to dipoles, I decided what the heck and tried it. It is worth mentioning that when I camp, one of the best in the camper antennas that

I have to use when I have the trees for it is a 100 foot "zepp". All it is is 50 feet of 24 gage speaker wire split in half for single conductors

for 100 foot dipole and fed with "cheap" 300 ohm twin lead. On the last camping trip, the tree and the wind "ate" this dipole. I started out to make one just for camping and then remembered that the pole was sitting in the back yard not being used. To make a long story short, the 32 foot

pole now holds a 130 foot dipole strung inverted vee fashion fed with "good" low loss 300 ohm twin lead. The twin lead is the foam core stuff and the reason that I chose that was for the durability. I have used this antenna on and off for about a week now and it seems FB. It will tune on everything from 80- 10 meters and I have used it only on 30 and 40 meters. Here is the kicker. It hears better by 2 S units on 30 meters

than the Gap Titan. The Titan is just 8 feet off of the ground and as with most of the popular all band HF verticals, 30 receive is the weakest. The other supriser (sp?) is that the wire seems to work just as

well if not better for the QSO's that I have had so far, and they have not been that many. Just in one night at QRp levels I snagged Russia, Poland, Honduras and somewhere else that I cannot remember on 30 meters.

I had a chat with one gent QRO (oh my!) and switched between the 2 and he said that the signals were about the same but the dipole was a bit better. So far, the dipole seems to do everything that the vertical does, except hear better. Does anyone have any of that fancy NEC stuff that could model this antenna just so I could see what the plot looked like? I don't have the software, although I tried out the NEC -WIN stuff

and just never took the time to learn it. The wire is 22 gage stranded and the top section is 130 feet. The antenna is 32 feet at the apex and the ends are at 6 feet (on top of the fence) with about 10 feet at right

angles to the top wire running along the top of the fence. (I have a small lot ok?) The antenna is fed with "premium":-) RS low loss twin

lead. So far this looks like a winner for cheap and effective dipole and will give me a better signal on 80 meters when the weather gets cold again, bearing in mind that it might blow down as I forgot to put it up in the snow!

Best
Jess N0TFI
<http://www.concentric.net>

Date: Wed, 06 Aug 1997 22:43:39 -0500
From: James Parsons <k5rov@worldnet.att.net>
To: Jack Meadows <jackmead@getnet.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24444] Re: SGC 2020
Message-ID: <33E9446B.1A08@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jack Meadows wrote:

>
> Hi Jim,
>
> You might keep your eye out for a good used Ten Tec Century 22
> transceiver. It is cw only and has pwr adjust knob on front panel,
> zero to 20 watts. It also has built in swr meter and a variable
> audio filter. It's a real nice rag chew xcvr for the cw man. I
> use mine for that.
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> Best regards,
> Jack W7QQQ
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> > Yes, its very disappointing having to wait for so long for the SG-2020.
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> > I have been playing with 20 watts out of my rig, CW of course. I can do
> > anything I can with my full power. I don't really care too much for pure
> > QRP (forgive me, gang) because I love long rag-chews and they can be
> > difficult with five watts or less. It seems that other stations love to
> > run 100 watts right next to a QRP station, so I prefer the QRO of 20
> > watts.
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> > I wish that some of the QRP manufacturers would make a rig that goes up

> > to 20 watts; it sure would be a big help when the 4-5 watts gets
> > difficult for long-winded guys like me.
> >
> > Anyway, guess we will have to wait a while longer.
> >
> > 73
> >
> > Jim, K5ROV
> >

Thanks for the Info, Jack. I have looked for a Century 22, and put notices on the "For-Sale" reflector, but never did have any offers.

Best 73 and thanks again...

Jim, K5ROV
--

James (Jim), Parsons, K5ROV USAF, Ret.
k5rov@worldnet.att.net QCWA, NWQRP, Fists, ARRL
EX: W1RLA, K5FBB, K4FEO, SVOWN (CRETE), SVOWN (RHODES),
DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).
JOHN 3:16

Date: Wed, 6 Aug 1997 21:20:59 -0700
From: w_hill@ns.net (Ward Hill)
To: qrp-l@Lehigh.EDU
Subject: [24445] TICK Keyer
Message-ID: <v01540b00b00efd6d4e18@[204.119.242.35]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Does anyone have an address I can use to get more info on the TICK Keyer??

Ward Hill - WA6FUH
"I radiate, therefore I am."
w_hill@ns.net
Life Member ARRL
10-10 #27139
QRP-L #1117
Engineer @
Channel 3 KCRA (NBC) &
Channel 58 KQCA (UPN), Sacramento, California

Date: Wed, 06 Aug 1997 21:51:07 -0700
From: Ken Lopez <kjlopez@earthlink.net>
To: QRP-1 <QRP-1@lehigh.edu>
Subject: [24446] For Sale
Message-ID: <33E95440.55F7@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am contemplating other rigs and projects, and also need to get my Cascade built and running. I have had great success with this rig, but it is time:

For sale: Index Labs QRP++ Like new. Original owner, with gain control mod. Works very well on CW/SSB. \$500.00

I can be reached here on Email, or at 818-541-0712.

Cheers,
Ken, N6TZV

Date: Thu, 07 Aug 1997 04:39:18 +0100
From: "Brian K. Short" <shortckt@primenet.com>
To: Ham-Software@qsl.net
Subject: [24447] Re: [HomeBrew] cutting pcb material
Message-ID: <3.0.1.32.19970807043918.00776e08@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

So how does one cut PCBs straight (at home)? I don't have a band saw (or whatever) as the wife works on people with recently cut off appendages and won't let me ;)

So how does one cut it straight, safely, and without power tools (and at home)?

At 04:56 PM 08/06/97, you wrote:

>brian,
>

>i was having trouble cutting pcb's too, until i found that aviation snips
>worked real well. i got mine from menards (a home-depot type place). they

>cost about \$10, much cheaper than a good paper cutter.

Much, much safer, too! Consider what it's like trying to cut a dozen sheets of paper at once on a paper shear; you can hardly put enough pressure on the paper to hold it in place and keep the bottom sheets from pushing out of place. Now multiply that force by a few times more in the case of 1/16" G-10 board! You virtually have to use C-clamps to keep it from scooting.

But worse is that the shear will get dull pretty quickly (within a couple dozen cuts) and be worthless.

The major disadvantage of tin or aviation snips is trying to cut a straight line and also trying to cut larger sheets that don't want to bend as you force the snips through. You have to use a long flat file to smooth the cut edges and this can get messy since you get fiberglass dust all over everything.

But like anything, practice makes perfect! After 30+ years of doing things like that, one hardly notices how difficult it may be for someone who has never tried that method...

73, Steve Ko0U/1

The Crookidest PC Board Cutter East of the Mississippi

"If you can't run with the big dogs, stay on the porch!"

Brian Short k7on@qsl.net <http://www.qsl.net/k7on>
1994 E Laguna Dr Tempe, Az 85282 (602)839-3484

Date: Wed, 06 Aug 1997 23:54:01 -0500
From: John Sullivan <sullivjd@sound.net>
To: qrp-1@Lehigh.EDU
Subject: [24448] Re: TICK Keyer
Message-ID: <33E954E8.41C5@sound.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ward Hill wrote:

>
> Does anyone have an address I can use to get more info on the TICK Keyer??
>

<http://www.frontiernet.net/~embres>

or

email at embres@frontiernet.net

or

Embedded Research
PO Box 92492
Rochester, NY 14692

72 de kg0mz

Date: Thu, 07 Aug 1997 01:01:49 -0700
From: Multi-Volti Devices <MULTI-VOLTI@softhouse.com>
To: shortckt@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24449] Re: [HomeBrew] cutting pcb material
Message-ID: <33E980ED.81658387@softhouse.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you insist on the AT HOME restrictor, I guess the only answer is poorly, unless you've got specialized tools. I used to use a sheet metal shear in my high school shop, but again, it's not a garden-variety tool in the average toolbox.

Another effective, but tedious (you said No Power Tools) way is clamping a straight edge & scoring repeatedly with a utility knife, then breaking them off.

Murray

Brian K. Short wrote:

> So how does one cut PCBs straight (at home)? I don't have a
> band saw (or whatever) as the wife works on people with recently
> cut off appendages and won't let me ;)
>
> So how does one cut it straight, safely, and without power tools
> (and at home)?

>
> At 04:56 PM 08/06/97, you wrote:
> >brian,
> >
> >i was having trouble cutting pcb's too, until i found that aviation
> snips
> >worked real well. i got mine from menards (a home-depot type
> place). they
> >cost about \$10, much cheaper than a good paper cutter.
>
> Much, much safer, too! Consider what it's like trying to cut a dozen
> sheets
> of paper at once on a paper shear; you can hardly put enough pressure
> on the
> paper to hold it in place and keep the bottom sheets from pushing out
> of
> place. Now multiply that force by a few times more in the case of
> 1/16" G-10
> board! You virtually have to use C-clamps to keep it from scooting.
>
> But worse is that the shear will get dull pretty quickly (within a
> couple
> dozen cuts) and be worthless.
>
> The major disadvantage of tin or aviation snips is trying to cut a
> straight
> line and also trying to cut larger sheets that don't want to bend as
> you
> force the snips through. You have to use a long flat file to smooth
> the cut
> edges and this can get messy since you get fiberglass dust all over
> everything.
>
> But like anything, practice makes perfect! After 30+ years of doing
> things
> like that, one hardly notices how difficult it may be for someone who
> has
> never tried that method...
>
> 73, Steve Ko0U/1
> The Crookidest PC Board Cutter East of the Mississippi
>
> "If you can't run with the big dogs, stay on the porch!"
> Brian Short k7on@qsl.net <http://www.qsl.net/k7on>
> 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484

Date: Thu, 07 Aug 1997 01:05:22 -0700
From: Multi-Volti Devices <MULTI-VOLTI@softhouse.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24450] HWA-9
Message-ID: <33E981C1.EC271A49@softhouse.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry if I already sent this before:

I have a bunch of HWA-9 unopened Bandpack Accessory kits to sell.

\$43 ppd. by Priority Mail

Murray
Multi-Volti Devices
multi-volti@softhouse.com
www.softhouse.com/users/uptown/multi-volti/

Date: Thu, 07 Aug 1997 01:26:21 EDT
From: tayloe_d@juno.com (Daniel R Tayloe)
To: azqrp@dancris.com, qrp-1@lehigh.edu
Subject: [24451] FW5IW
Message-ID: <19970806.222504.9359.1.tayloe_d@juno.com>

FW5IW seems to be coming in very strong tonight in Phoenix. 528 UTC on 14.020 MHz. He was a lot weaker than this when I worked him with 2.5 watts!

Not many takers either.....

Lets show the KW camp that QRPers can work good DX also!

- Dan Tayloe, N7VE, Phoenix, AZ, AZ ScQRPions, QRPL # 696

Date: Wed, 6 Aug 1997 22:44:23 -0700 (PDT)
From: Kory Hamzeh <kory@avatar.com>

To: Daniel R Tayloe <tayloe_d@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24452] Re: FW5IW
Message-ID: <Pine.BSI.3.91.970806224154.25370A-100000@avatar.avatar.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Yes, FW5IW was a very big thrill for me. That contact was my first "exotic" DX QRP contact. I worked him a couple nights ago with 2 watts on the first call! Couldn't believe it when he came back to me! I was not the only station calling him either.

Fun stuff!

Kory
AC6RN

On Thu, 7 Aug 1997, Daniel R Tayloe wrote:

> FW5IW seems to be coming in very strong tonight in Phoenix. 528 UTC on
> 14.020 MHz. He was a lot weaker than this when I worked him with 2.5
> watts!
> Not many takers either.....
>
> Lets show the KW camp that QRPers can work good DX also!
>
> - Dan Tayloe, N7VE, Phoenix, AZ, AZ ScQRPions, QRPL # 696
>
>

Date: Wed, 06 Aug 1997 23:50:39 -0600
From: "Phil, K6LS" <k6ls@qsl.net>
To: qrp-1@Lehigh.EDU
Subject: [24453] letter stations
Message-ID: <33E9541F.4DEF@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Awhile ago there was some talk about the letter station (beacons ?) a common one would be the one near 7.039 Mhz. anyway, while browsing thru a Monitoring Times (July 97) I found a list of them and their respective locations as confirmed by a Russian Naval radio operator (they are Russian Navy Stations). I dont have a list of freq's (supposed to be

out in a future issue) but here are the list of stations and their locations. (good FYI and propagation indicators!)

F Vladivostok (no wonder we can get this often!)

C Moscow

L St. Petersburg

P Kaliningrad

R Ustinov

S Arkhangelsk

V Tashkent

--

73 de Phil, K6LS/0
QRP-L #612
k6ls@qsl.net <or> k6ls@amsat.org
DM79or, Arapahoe County, Colorado
ITU zone 7, CQ zone 4
<http://www.qsl.net/k6ls>

Date: Thu, 7 Aug 1997 01:57:17 -0400 (EDT)
From: ROYGREGSON@aol.com
To: qrp-l@lehigh.edu
Subject: [24454] L5 !
Message-ID: <970807015717_-1138005125@emout14.mail.aol.com>

My appologies to the fellow that asked about L5 in the NW's. You have it correct, it is symetrical.
sorry, I hit delete in stead of save so lost your address !
My Humble appologies.
Roy

Date: Thu, 7 Aug 1997 01:23:00 -0500 (CDT)
From: Raventhorne <jelder@ix.netcom.com>
To: kd1jv@moose.ncia.net, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [24455] Re: Q multiplier
Message-ID: <2.2.16.19970806232114.2f3f1bbe@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:13 PM 8/6/1997, Steven Weber wrote:

>I don't have the article in front of me, but it uses one n channel J fet, a
>2N3906, a trimmer, 3 or 4 resistors and a cap or two. Powered by 12 volts,
>I think, but I'm sure that is not too critical. I don't recall ever seeing
>a Q mulitplier implimented using solid state devices before this. Might be
>time to "rediscover" them.

Check out:

http://www.gqrpclub.demon.co.uk/sm0vpo_1.html

He has a couple of them!

72,

John

@~~~

@ John Elder, Ko6TS

@ PHROG (Pagan Ham Radio Operators' Guild)

@ Box 232, El Segundo, CA 90245

@ Does a psychologist eat his Jung? How does his inner child feel about this?

Date: Thu, 7 Aug 1997 01:22:59 -0500 (CDT)
From: Raventhorne <jelder@ix.netcom.com>
To: ctrask@primenet.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [24456] Re: Altoids Alert
Message-ID: <2.2.16.19970806232111.2a170582@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:39 AM 8/6/1997 -0700, Chris Trask wrote:

>> were Altoids!

>>

> Is anybody actually eating these things? No, not the can!! :{)

Between clients at my internship. I like the minty fresh breath feeling!

72,

John

@~~~

@ John Elder, Ko6TS

@ PHROG (Pagan Ham Radio Operators' Guild)

@ Box 232, El Segundo, CA 90245

@ Does a psychologist eat his Jung? How does his inner child feel about this?

Date: Thu, 7 Aug 1997 01:36:22 -0500 (CDT)

From: Raventhorne <jelder@ix.netcom.com>

To: shortckt@primenet.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [24457] Re: Relay Driver Part?

Message-ID: <2.2.16.19970806233442.2f3f8466@popd.ix.netcom.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 03:24 AM 8/7/1997 +0100, Brian K. Short wrote:

>I'm working on another small automatic antenna selection project

>and need (3) 12v drivers as follows:

>

>

>

>

>

>

>

>

>

>

>

>

>

>Anyone know a great part (I need 3 like circuits)?

>Shall I just use PNP transistors? Suggestions?

You don't specify current requirements. There are some great little TTL devices with open collector outputs--you simply pull them up to whatever voltage level you want. Don't have a TTL book at home, tho.

72,

John

@~~~

@ John Elder, Ko6TS

@ PHROG (Pagan Ham Radio Operators' Guild)

@ Box 232, El Segundo, CA 90245
@ Have you driven a Fjord lately?

Date: Thu, 7 Aug 1997 00:14:17 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: azqrp@dancris.com
Cc: qrp-1@lehigh.edu
Subject: [24458] Re: FW5IW
Message-ID: <199708070714.AAA09514@usr06.primenet.com>
Content-Type: text

ScQRPion Dan (N7VE) wrote:

> FW5IW seems to be coming in very strong tonight in Phoenix. 528 UTC on
> 14.020 MHz. He was a lot weaker than this when I worked him with 2.5
> watts! Not many takers either.....
>
> Lets show the KW camp that QRPers can work good DX also!

Well darnit, he (she?) was gone by the time I got there, but I
did manage to find and work a very nice VK4 (Tim) and a UA0 (Val)
on the bottom of 20m (all around 0630Z). Even managed an "AB7??"
out of an HL (South Korea) but he gave up on me. 'Course he was
calling CQ 'til he was blue in the face after that. His choice. :)

Thanks for the heads-up!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"'Fraid nobody around here, understands my potato;
Think I'm only a Spudboy, looking for a real tomato." -DEVO

Date: Thu, 7 Aug 1997 00:31:15 -0700
From: n5inz@juno.com (John M Andrews)
To: qrp-1@Lehigh.EDU
Subject: [24459] 30,000 10pF. caps.....
Message-ID: <19970807.003128.9030.0.N5INZ@juno.com>

Another day has gone by in retirement. I was mulling over the thought of what I would do with myself and thought I might try selling a few parts on the 'net. Idle hands etc. Had originally thought about just building and operating but the "bug" caught up with me again.

The move to San Antonio is still on and looking forward to a new home far from the madding crowd but just planting daisies didn't appeal.

Went to the *secret source* and bought 2 pallets of STUFF. My only question is:

How the heck do I get rid of 30,000 10 pF. Silver Mica caps?

300lbs of blank pc board?

Not to mention the other stuff! (Best buy: 12Amp Tripp-Lite PS for 10 bucks-like new.....). Nice companion for the QRP+. Nope...not for sale.

I'll keep everyone posted when I get moved.

72, John- N5INZ
(BTW- Keep cool in this hot weather...Make sure pets, children and YOU drink lots of water).

Date: Thu, 7 Aug 1997 02:40:23 -0800
From: wpc@west.net (John Roblin)
To: qrp-l@Lehigh.EDU
Subject: [24460] Altoids: QRP-L Tradition or Torture??!!
Message-ID: <v01530505b00f52cd2cd0@[205.254.241.9]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:39 AM 8/6/1997 -0700, Chris Trask wrote:

> Is anybody actually eating these things? No, not the can!! :{)

Just wondering...

Is it a QRP-L tradition (or torture!) to have to actually eat an entire can

of Altoids before building something within the can??!! **Maybe it ought to be! ;)

I am slowly getting use to the "curiously strong" taste. It may take a while, but I do plan to finish them off!!

73, John WA6KY0
Ventura, CA

Date: Thu, 07 Aug 1997 08:00:14 -0400
From: Paul Cereste <cereste@myapc.com>
To: bmug@gwl.com, qrp-1@Lehigh.EDU
Subject: [24461] MFJ -Reply
Message-ID: <s3e98060.027@myapc.com>

MFJ's web page
(<http://www.mfjenterprises.com>) lists 5
e-mail addresses. The "general" one is
mfj@mfjenterprises.com

73, Paul

>>> Brad Mugleston <bmug@gwl.com>
08/06/97 04:54pm >>>
Does anyone have MFJ's email address.
The one I have in their manual bounces.

Thanks

de KB0ROL, Brad

Date: Thu, 7 Aug 1997 07:59:30 -0400 (EDT)
From: MNHopkins@aol.com
To: QRP-L@lehigh.edu
Subject: [24462] In re HB pc cutting, treason

Message-ID: <970807075929_719533091@emout06.mail.aol.com>

First let me say that this thread is profaning the QRP-L by diverting its attention from the latest nuance of prepared kit worship.

But if you must cut pc board, as in making a DeMaw ugly box or such, put it between two strips of lumber, clamp it and use a hacksaw. Here in Dallas one can assemble the entire operation with a trip to the "Dollar Store" for a Chinese hacksaw and some Tibetan clamps. On the way back stop at a side-of-the-road scrap pile for the lumber and, if you are lucky, hit an abandoned TV set for the 3.579 color burst crystal and lots of useful stuff.

But beware: If you persist in this, your station will look like mine.

72,3 de ab5l, striving for a zero resale value station, MNHopkins@AOL.com

Date: Thu, 7 Aug 1997 08:46:43 -0400 (EDT)
From: Bigbob97@aol.com
To: QRP-L@lehigh.edu
Subject: [24463] cutting pcb material
Message-ID: <970807084641_749717364@emout20.mail.aol.com>

When buying aviation snips please remember that there are "rights" "lefts" (green and red) and "straights" (forgot the color - maybe yellow) The first two are for cutting curves. Also, quality differences are amazing and there is a lot of junk available. One brand that I always found good is Wiss. Could be others that are acceptable, but there is nothing worse than trying to work with crummy tin snips. You will ruin the work and possibly get cut. This is one tool in which quality is very important - or - don't buy 'em - just borrow your neighbors! 73,
Bob WB2DHK

Date: Thu, 7 Aug 1997 09:02:47 -0400
From: "Rick LaBanca" <rlabanca@eps.inso.com>
To: <qrp-l@Lehigh.EDU>
Subject: [24464] cutting pcb
Message-ID: <199708071305.JAA05968@eps-inc.eps.inso.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rick KA1EZE

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

```

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.      ( ) \
'-| )__| :. \
| | | | \ '.
c__; c__; '-..'>.__

```

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com

Graphics by Loek Frederiks

Date: Thu, 7 Aug 1997 06:16:34 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: John M Andrews <n5inz@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24466] Re: 30,000 10pF. caps.....
Message-ID: <Pine.BSI.3.96.970807061348.17804F-1000000@usr09.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 Aug 1997, John M Andrews wrote:

```

>
> The move to San Antonio is still on and looking forward to a new home far
> from the madding crowd but just planting daisies did'nt appeal.
>
> Went to the *secret source* and bought 2 pallets of STUFF. My only
> question is:
>
> How the heck do I get rid of 30,000 10 pF. Silver Mica caps?
>
> 300lbs of blank pc board?
>

```

Congratulations. You are on the verge of becoming the next
"Dan's Small Parts" or "Baggy Bob" at hamfests, websites, whatever
you might prefer.

How much for the 10pF mica caps? Pretty handy for VHF projects.

Regards,

Chris

```

/-----.\
/ If you understand it, \

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
ORP ARCI 9464

Graphics by Loek Frederiks

On Thu, 7 Aug 1997, John Roblin wrote:

```
> >          Is anybody actually eating these things?  No, not the can!! :{)
>
> Just wondering...
>
> Is it a QRP-L tradition (or torture!) to have to actually eat an entire can
> of Altoids before building something within the can??!!  **Maybe it ought
> to be!  ;)
>
> I am slowly getting use to the "curiously strong" taste.  It may take a
> while, but I do plan to finish them off!!
>
```

I've never eaten any of these critters, but if they have a hole in the middle, like Lifesavers, maybe they could be used as phenolic toroids??

Chris

[illegible]

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com

Graphics by Loek Frederiks

Many thanks to the multitudes that sent me email on the data.

dit dit

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/index.html>
 K5FO's online Morse Code course --- see the home page
 WIMPS: 0s=049 30m=35 17m=5 12m=0 States=24/05/00 DX=03/00/00 QSLs=016

Date: Thu, 07 Aug 1997 07:54:13 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-1@lehigh.edu
Cc: ea8yu Goran <rodriguez@jet.es>
Subject: [24469] RE: CW training
Message-ID: <2.2.16.19970807135413.1ea7b9d4@eloi>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>There is a lot of interesting litterature on the net which could be used
>in the same way as the news but most of that is in HTML format. Does
>anyone know a program to change HTML to ASCII file so it can be used by
>for example the Super Morse program? It is not very nice to try to copy
>all those HTML commands in you head.

>
There is a free add-on for Microsoft Word (can be down-loaded from their WEB
site) that supports HTML format. Simply read in an HTML file and use SAVE AS
to save it as an ASCII file.

72, L.

Date: Thu, 7 Aug 1997 07:14:40 -0700 (PDT)
From: Monte Stark <ku7y@sage.dri.edu>
To: MNHopkins@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [24470] Re: In re HB pc cutting, treason
Message-ID: <Pine.SUN.3.90.970807071328.451B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 Aug 1997 MNHopkins@aol.com wrote:

> striving for a zero resale value station,

That's what my wife thinks I already have!! :-)

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....

....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Thu, 7 Aug 1997 11:00:32 -0400 (EDT)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [24471] Re: In re HB pc cutting, treason
Message-ID: <Pine.LNX.3.93.970807105253.636F-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 Aug 1997, Monte Stark wrote:

> > striving for a zero resale value station,
> That's what my wife thinks I already have!! :-)

So then she can't get mad at you for "nothing" right ?? :->

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --

Date: Thu, 07 Aug 1997 09:06:22 -0700
From: Ed Loranger <we6w@qsl.net>
To: captaindick@acmenet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [24472] Re: Help - unsubscribe
Message-ID: <33E9F27E.459E@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Captain Dick, sorry things are too busy here.

Hope you've had a chance to join ARCI or Norcal for
the magazines I mentioned in my last email to you.

To unsubscribe from qrp-l do the following:

- 1) Make sure you have the correct email name in netscape
that you had when you subscribed.
- 2) send email to the LISTSERV@LEHIGH.EDU, Not the remailer
address.

3) No subject in email. In the body of your message
type UNSUBSCRIBE QRP-L

and you are done.

Best to you!

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Thu, 7 Aug 1997 11:09:45 -0500

From: ac5am@juno.com (Robert L Stolzle)

To: qrp-l@lehigh.edu

Subject: [24473] N.E. QRP Afield Sept. 20

Message-ID: <19970807.111014.3310.0.ac5am@juno.com>

Hello all you QRP pickers,

Happy to hear the N.E. QRP Afield is still on. In the words of
Jay, WA5WHN, this is the "Grand Kahuna" of QRP field days.

As the winner of last years event I can attest that the plaque
is very nice. Even my XYL says so (she don't like my rig(s) though).
Thanks again Chet and the NE QRP Club. The prospect of getting
such a beautiful plaque should be enough incentive to make a
big effort for this one.

This year I have not decided whether I will go to a new location
I found in the Kisatchie National Forest called Coyote Trail or to
go back to my old reliable location high upon "telegraph hill"
in Grant Parish La where I can put up many diverse antennas.

Hope to work you all.

Happy trails... 72/73, Bob AC5AM NE #504

Date: Thu, 7 Aug 1997 09:47:32 -0700 (PDT)
From: Bob Okas <vintage@best.com>
To: "Brian K. Short" <shortckt@primenet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24474] Re: [HomeBrew] cutting pcb material
Message-ID: <Pine.SGI.3.95.970807093104.24340A-100000@shellx.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Brian and Gang,

Lacking a sheet metal shear, or access to one (best way I found), I use a hacksaw. Just score the copper, clamp the work in a vise and saw. You won't get a perfectly straight line. I use several files to 'plane' down the rough edge into a smooth surface. Worth noting is that fiberglass boards really chew up blades fast, so have a few on hand.

Bob - W3CD
Palo Altoid, CA

On Thu, 7 Aug 1997, Brian K. Short wrote:

> So how does one cut PCBs straight (at home)? I don't have a
>
>

Date: Thu, 7 Aug 1997 13:43:19 -0400 (EDT)
From: Steve Slavsky <sslavsky@CapAccess.org>
To: qrp-l@Lehigh.EDU
Subject: [24475] QRP Certificates
Message-ID: <Pine.SUN.3.91-FP.970807132714.28081B-100000@cap1.capaccess.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The past week has been a bonanza for me so far as QRP paper is concerned. First, I received a cert. from CQ Magazine telling me I was their 1st Place QRP finisher for the state of VA in their 160 meter contest for 1996 (only 18 months later). Actually, I was probably the 2nd, 3rd and 4th place also. That is one lonely contest for QRP SSB. I did amend my call a few times with QRP but gave up when stations kept saying "QRP - you've got to be kidding." Next came a VA 1st place and USA 4th place

QRP status for the ARRL 10 meter contest in 1996. I thought they didn't give out separate QRP awards, but I may have been thinking about the WAS/DXCC discussion on the list. I am not a real contester or paper chaser, but these made me feel like you can compete at QRP levels.

Last, but certainly most important, came the Fox Hunt participation cert. - straight from QRP-L #1. Chuck, that one was harder to get than any of the others and, to me, is a real accomplishment. Thanks for the hunt and the certificate.

All this QRP activity is pushing me towards getting my CW speed above about 15 wpm (straight key). Over the weekend I purchased a KE Electronics Memo 512 Keyer at the Berryville, VA hamfest. Its a real antique, but has built in lucite paddles and a speaker, so I can practice off the air till I get the hang of it. A good price and no schematic, also runs off A/C. If anyone has one of these or has used one, I need some help in how to operate the 2 memories. Should be intuitive, but not to me. Have tried everything obvious, but still just a squeeze paddle (iambic, I guess - right one for -, left for .).

Thanks in advance for any info.

72/73,

Steve, N4EUK
Reston, VA

Date: Thu, 07 Aug 1997 12:57:05
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [24476] Re: [HomeBrew] cutting pcb material
Message-ID: <3.0.1.16.19970807125705.2807843c@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I use the score and snap method myself. It dulls the utilitly knife blade real quick though. So, I snap the end of the blade off when it gets dull. This can be done a few times before needing a new blade.

Hack saw is okay, but kinda messy.

Sure would like to have a nice industrial strength pcb shear (to say nothing of a sheet metal brake, big drill press and all those nice toys..)

Speaking of pcb's, if you haven't tried PnP (Press and Peel) toner transfer film, its the best. Run it through your laser printer and iron it on. Perfect boards all most all the time...(available from ALL Electronics, but a bit pricy if you use a lot of it) Which reminds me, I really need to order more...

Oh, and you can make it last longer by only using as much as you need for a board at a time. First print out the layout so you know where on the paper it is going to print. Tape a piece of film over that area and print again. (I just use one strip of tape at the bottom of the film) This may not work with all printers, but my -hp- 5l has no problem running the tape through it.

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Thu, 7 Aug 1997 11:03:19 -0700 (PDT)
From: "David D. Meacham" <ddm@datatamers.com>
To: qrp-1@Lehigh.EDU
Subject: [24477] Cutting PCB material
Message-ID: <Pine.LNX.3.91.970807110150.1281A-100000@dt1.datatamers.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
I find that for straight cuts an old paper shear works fine.
72, Dave, W6EMD

Date: Thu, 7 Aug 1997 10:34:27 -0700
From: gsurrency@juno.com (Gary L L Surrency)
To: qrp-1@Lehigh.EDU
Subject: [24478] Re: In re HB pc cutting, treason
Message-ID: <19970807.110506.9894.0.gsurrency@juno.com>

On Thu, 7 Aug 1997 07:59:30 -0400 (EDT) MNHopkins@aol.com writes:

-----snip-----

>can assemble the entire operaton with a trip to the "Dollar Store" for
>a Chinese hacksaw and some Tibetan clamps.

I already have those. In addition, I have a pair of hemostats and a couple of stainless steel tweezers from Pakistan. I wouldn't start a kit without 'em. ;-)

Apologies to Richard Petty.....

72

AB7MY

Gary Surrency

Chandler, AZ (Near Phoenix), QRP-L #571, AZ ScQRPions, ARRL VE

Date: Thu, 7 Aug 1997 11:33:57 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Gary L L Surrency <gsurrency@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [24479] Re: In re HB pc cutting, treason
Message-ID: <Pine.BSI.3.96.970807113242.29096A-100000@usr03.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 Aug 1997, Gary L L Surrency wrote:

> On Thu, 7 Aug 1997 07:59:30 -0400 (EDT) MNHopkins@aol.com writes:
> -----snip-----
> >can assemble the entire operaton with a trip to the "Dollar Store" for
> >a Chinese hacksaw and some Tibetan clamps.
>
> I already have those. In addition, I have a pair of hemostats and a
> couple of stainless steel tweezers from Pakistan. I wouldn't start a kit
> without 'em. ;-)
>

As well as calipers and dividers from India (vie ENCO). Sure hope
that there's never a border dispute in my shop. :{)

Regards,

Chris

/ ,-----.
/ If you understand it, \
/ then it's obsolete! \
\ -----'

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY

Date: Thu, 7 Aug 1997 12:15:48 -0600
From: Brad Mugleston <bmug@gwl.com>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [24481] MFJ Help
Message-ID: <01BCA32B.A476C6A0@pps-pc10.gwl.com>

Content-Type: text

Thanks for all the response on the MFJ address. From what I've been told they are very responsive.

Thanks again

de KB0ROL, Brad

Date: Thu, 07 Aug 1997 11:50:19 -0700
From: Ed Loranger <we6w@qsl.net>
To: bmug@gwl.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [24482] Re: Post Script Thanks
Message-ID: <33EA18EB.449F@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I went to <ftp://FTP.LEHIGH.EDU/pub/listserv/qrp-l/forms/>
and looked at:
was.ps.Z, and awards.ps.Z.
NOTE: These files are Compressed. Maybe you forgot to
uncompress the files before printing?

Anyway, ghostview got them fine and they look great.

-Ed Loranger

--
72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok
<mailto:we6w@qsl.net> <http://www.qsl.net/we6w>

Date: Thu, 7 Aug 1997 14:51:07 -0400 (EDT)
From: PDouglas12@aol.com
To: qrp-l@Lehigh.EDU
Subject: [24483] summer doldrums/scratch building
Message-ID: <970807145048_2095757086@emout05.mail.aol.com>

Hi gang,

Have you noticed a little slowing of the list now that we are well into August? Anyway, the line of discussion about being a "traitor" (by scratch building instead of kitbuilding) brought some thoughts to mind. First, for those who are a little too literal, I, of course, realize the writer of the note was kidding--but the thought was interesting anyway. Why do I find myself buying and building kits? I know how and where to find the parts to scratch build, and I even know how to etch a pc board, when I feel like getting permanent stains on my shirt. So is it just the convenience of getting all the parts in one bag? Surely laziness is part of it, but there are other reasons.

I hold the real scratch builders of serious equipment in awe. Oh, I've built a few simple things, even a few transmitters and receivers from scratch--some of them worked and some didn't. The interesting part, though, is not what happens when they don't work, rather what happens when they work, but they don't work very well. See, I often can't tell and don't have the skills to figure out why they aren't working well. I can remember when I was a kid I built those crystal sets with coils and caps for tuning and puzzled over why I could only hear two stations, and I couldn't really separate them very well, no matter how I set the slider/cap combo. Of course, I knew nothing about Q or selectivity of front ends, etc. So I suppose I do know now why the crystal sets didn't tune very well.

Nowadays, I can build a transceiver, and usually it works (all too often, only after I have found the errors/bugs!). But if the receiver is a little deaf, or the transmitter is unstable on some antennas, or ... well you get the idea. How do I know whether I have a defective device in there causing the trouble? Or a mistake like a wrong part? Or was it just inherent in the design? Did I wire the crystal set wrong, or was that the best it could do? And if I try to homebrew a more sophisticated radio, what do I do if the input and the output from a receiver stage (on the scope--yes I have a dual trace scope nowadays) shows that the stage gain isn't up to snuff--ie the output signal isn't as strong as I might expect. Which part do I change?

Oh, I can start fiddling experimentally by changing the values of every part in the stage until I see something that looks like improvement. Never mind that after a few changes like that, a pc board will start to lose its traces, and even a dead-bug board will start to get messy. But that's not what the engineers do. They look at the scope traces, and then pull the offending part from the circuit and substitute a different value, based on some mental mathematical/instinct estimate.

I suppose, if I did start pulling every part and tried other values while I watched the scope, and if I did that enough times over enough years, I might then know which parts to pull and change in my head like the engineers do.

But I am already 50, and I can see I don't have enough lifetime left to start doing that long process. So I read as much as I can and experiment

when there is time.

But that brings us to scratch building versus kits. First of all, few of us are able to do the designing part. Most who try scratch building are trying to duplicate some published design. While a kit is likely to have manufacturer's parameters and specifications for performance, published designs usually don't. How do we know when the transceiver we build from a book is tweaked to maximum performance, especially when the article doesn't specify performance parameters? If we build a transceiver, and we can hear band noise and lots of sigs, we can conclude it works. And if the transmitter looks ok on the scope and puts out four watts, we probably have it right. But, particularly with receivers, we may never know that one transistor isn't working right, and that rig had another 50% improvement in performance lurking on the circuit board. How do we know our example is not providing typical performance?

Few published designs have had multiple units built before publication. I can recall one exception in the NN1G design in QST several years ago--I mean the one that nowadays Small Wonder Labs kits as the SWLxx series. So many had already been built by the time it appeared in QST that the published design was likely to be repeatable. It is the reproducibility or repeatability of a design that makes it suitable for most builders like me (and most of you, I assume). Whether it is a published (for scratch building) or kitted, that is what the intermediate level builders should be looking for. A good design for scratch building, or a good kit for that matter, must have sufficient leeway to allow for consistent, reproducible, repeatable results in the field. Kit manufacturers learn this, or they perish under the weight of customer problems. If the kit requires part changing to tweak it (meaning that resistors, capacitors, coils, or active devices must be changed after construction is "complete" to bring the unit up to specs) as opposed to in situ adjustment of variable caps, pots, and inductors, then the manufacturer has bought some trouble. Same thing with a published design. If the builder has to change the values of fixed caps and resistors all over a circuit to make it work well, because their values are critical, then the circuit isn't a design for folks at my level of skill.

The problem with published designs is that the builder often can't tell how sensitive the performance is to part value variations. On the other hand, good commercial kit sellers have already adjusted their designs to be insensitive to part value variations, or they supply a high precision parts wherever the design can't be "loosened."

There are, then, different levels of uncertainty and risk in any project.

The first consideration is whether the project will work at all. If it was scratch built, and it doesn't work, well then, there will be some troubleshooting involved, and still some projects will never work. But once it is working, the uncertainty continues. Is it working right? How can I tell? If it is scratch built, I may never know. With a kit, I have a somewhat better chance of gauging proper performance, so I can know when it

is "finished." Anyway, that's why I often decide to buy a kit, even though I could probably get a scratch version to work. I sure wish I knew more.

72 all,

Preston WJ2V

Date: Thu, 07 Aug 1997 15:22:37 EDT
From: w4bws@juno.com (Donald E Sanders)
To: wpc@west.net
Cc: qrp-l@Lehigh.EDU
Subject: [24484] Re: Altoids: QRP-L Tradition or Torture??!!
Message-ID: <19970807.153413.12079.5.W4BWS@juno.com>

Actually sucking on the Altoids counter acts the fumes from the melting solder.

DON W4BWS

On Thu, 7 Aug 1997 02:40:23 -0800 wpc@west.net (John Roblin) writes:

>At 08:39 AM 8/6/1997 -0700, Chris Trask wrote:

>

>> Is anybody actually eating these things? No, not the can!!

>:{}

>

>Just wondering...

>

>Is it a QRP-L tradition (or torture!) to have to actually eat an

>entire can

>of Altoids before building something within the can??!! **Maybe it

>ought

>to be! ;)

>

>I am slowly getting use to the "curiously strong" taste. It may take

>a

>while, but I do plan to finish them off!!

>

>73, John WA6KY0

>Ventura, CA

>

>

>

>

Date: Thu, 07 Aug 1997 15:22:37 EDT
From: w4bws@juno.com (Donald E Sanders)
To: zlau@arrl.org
Cc: qrp-1@Lehigh.EDU
Subject: [24485] Re: Broadband Amp
Message-ID: <19970807.153412.12079.2.W4BWS@juno.com>

Zack,
Are reprints or copies available for this article and does anyone have a
kit of parts?
Thanks
DON W4BWS

On Tue, 05 Aug 1997 15:45:35 -0400 Zack Lau <zlau@arrl.org> writes:
>Bob Kellogg wrote:
>
>> To paraphrase Thomas R. Marshall, "What this country needs is a good
>5 watt
>> broadband amp."
>
>I published a 1.8 to 54 MHz design in the May 1992 QEX. 28 to 30 dB
>of gain on all the amateur bands in the range--is that broadband
>enough? 1.8 to microwave might be possible, but the devices are
>still very expensive--and probably fragile as well.
>
>It does need a 28 volt supply and draws 14 watts of power just
>idling--so its not meant for backpacking rigs. It is quite linear,
>with IMD 38 dB down relative to PEP, worst case.
>
>--Zack Lau W1VT
>
>
>

Date: Thu, 07 Aug 1997 15:22:37 EDT
From: w4bws@juno.com (Donald E Sanders)
To: tahrens1@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [24486] Re: Mini-Yagi and 5 Watts Snags a VK4
Message-ID: <19970807.153412.12079.3.W4BWS@juno.com>

Gerbles gerbling
DON W4BWS

On Wed, 6 Aug 1997 13:04:47 -0500 tahrens1@juno.com (Timothy H Ahrens) writes:

>

>On Wed, 6 Aug 1997 10:50:41 -0700 (MST) Joe Gervais

><vole@primenet.com> writes:

>

>>Check that feedline and tweak those antennas, folks. Fox Season
>>is just around the corner! Wahoo! [Coded message to AZNM Combined
>>Fox Strike Team: The platypus is pining for the fjords. I repeat -
>>the platypus is pining for the fjords.]

>

>

>Oh, that's just Swell! First Badgers, now poor Platypus' pining.

>What's

>next?

>

>HA! I got my decoder ring out of the box... really Joe, do you really
>think

>that strategy will work?!

>

>

>Heah come de fox!!

>

>cuall

>

>

>Tim W5FN

Date: Thu, 07 Aug 1997 15:48:44 -0400

From: Ed Pacyna <pacyna@auratek.com>

To: w4bws@juno.com

Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [24487] Re: Broadband Amp

Message-ID: <3.0.16.19970807154842.2fc7a812@dingle.auratek.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

>>> To paraphrase Thomas R. Marshall, "What this country needs is a good
>>> 5 watt broadband amp.

Check out the Motorola application note AN779 for 2 possibilities. One has 30+dB gain using cheap T0220 transistors and the other has 40+dB gain. Both are linear (class AB1) push pull circuits and cover the entire HF spectrum.

Circuit boards are available from FAR or kits (and partial kits) from CCI.

73, Ed, W1AAZ

Date: Thu, 07 Aug 1997 15:54:03 EDT
From: tahrens1@juno.com
To: qrp-1@Lehigh.EDU
Subject: [24488] WTB: INDEX COMPANION
Message-ID: <19970807.145434.4919.0.tahrens1@juno.com>

Ok folks... as they say down here... I'm a fixin
to build my own... but if you have any compassion,
and would like some sheet aluminum to be spared,
please consider selling me your companion. Who knows,
I might even cut myself on the hand tools.. Howz that
for guilt? hehe

Anyhow, if anyone has a Companion that they have
been thinking about selling (or swapping), I could
be persuaded out of my ARK4 cw rig, or some cash.

thanks!

Do I smell a fox nearby?!

cu

Tim W5FN

Date: Thu, 7 Aug 1997 13:08:08 -0700
From: Jim Bennett <jbennett@ebmud.com>
To: "'QRP-1 Postings'" <qrp-1@lehigh.edu>
Subject: [24489] Sierra Power - Thanks!!
Message-ID: <01BCA332.F4EB87E0@jbennett.ebmud>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Just wanted to post a general thank you note to all the kind

folks who replied to my inquiry about raising my Sierra's 30m power up above the 1 watt level. I've now got lots of things to try, and will hopefully be able to implement some of them prior to leaving for XE3-land on the 16th.

This is a great bunch of folks - thanks again!!!!!! :-)

72, Jim / W6JHB

```
+-----+
+  Jim Bennett / jbennett@ebmud.com
+  East Bay Municipal Utility District (EBMUD)
+  Supervising Systems Programmer
+  375 11th St. / MS 302
+  Oakland, CA 94607
+
+  Voice: 510-287-0224 fax: 510-287-0373
+-----+
```

Date: Thu, 7 Aug 1997 16:13:00 -0500
From: William Peloquin <williep@PIERCEMFG.COM>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [24490] Fox Hunting
Message-ID: <199708072013.PAA27870@peter.atw.earthreach.com>

Hi,

I am new to the QRP-L group, and to QRP in general. How exactly does a QRP fox hunt work. I participate in local VHF fox hunts. I would like to partake of the QRP variety!

Willie N8MDY

Date: Thu, 7 Aug 1997 15:21:21 -0500
From: bill@taprov.com (Bill Cleveland)
To: <qrp-1@Lehigh.EDU>
Subject: [24491] QRP Kit Advice
Message-ID: <19970807202137860.AAA299@bill>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hello All!

I am thinking about building a QRP transceiver. Any advise on which kit to build? I am thinking about starting with 40 meters. Bad Idea?

=====

73 de

Bill Cleveland, KR4TZ GRID: EM50vp QRP-L# 1184 ARS# 289
Mobile, AL ARRL MEMBER / AL Section ASM

Co-founder of the TriState Coastal Emergency Net -- NWS Mobile
Member and trustee of the Mobile Amateur Radio Club

Don't forget! Mobile ARC hamfest - Sept 27 - 28

Date: Thu, 07 Aug 1997 13:21:08 -0700
From: Ed Loranger <we6w@qsl.net>
To: PDouglas12@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [24492] Re: summer doldrums/scratch building
Message-ID: <33EA2E34.12B2@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You need "Secrets of RF Circuit Design". Sweet book!

Gives all the engineering design information in a manner
that any medium Tech level can work intelligently from.

I designed a Low Noise RF Amplifier from scratch with the
thing back in the 80's. Transistor curves, Smith Chart
work etc. and it was awesome. I think someone borrowed the
amp cause haven't seen it since one of the engineers showed
interest.....

Radio telescope Amp. 2n5179's and 2n5109's. My favorite
for UHF work. I ramble...

I believe Joseph Carr is the Author.

Good luck. /Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Thu, 7 Aug 97 21:00:22 UT
From: "Ed Manuel" <n5em-qrp@msn.com>
To: shortckt@primenet.com
Cc: "QRP-L Remailer" <qrp-l@lehigh.edu>
Subject: [24493] RE: [HomeBrew] cutting pcb material
Message-ID: <UPMAIL15.199708072101360284@msn.com>

Go to your BIG hardware store or Handy Dan or Lowes or whatever is in your area and look for tin snips. That's what we call them here. The ones you want are generally made by Wiss, have cutting heads that are big and half-moon shaped. Mine are grey. The heads are large enough and made in such a way as to naturally cut in a straight line if you use a little care in keeping the material up against the head. I have use them to cut board for years and they have never dulled and always cut FB. Over a long cut (say, more than 2 or 3 inches) they will tend to impart a curl to your work, especially if it is narrow. For example, the side of a PC board box might be only an inch wide by 5 or 6 inches long. I can take a pair of pliers and give the part a reverse twist and remove the curl nicely. Also, I generally take the pieces and pull them across a big file to square up the edges after the cut.

With a little practice, you can get pretty precise with these and they don't need power and will probably last you a lifetime. Also, you can cut tin with them (or sheet brass or copper or galvanized sheet metal from your hardware store). I also use them to cut up old credit cards. Makes the XYL feel good to seem them destroyed into little pieces :-)

Ed, N5EM
Houston, Texas
n5em-qrp@msn.com

Date: Thu, 07 Aug 1997 16:00:57 -0400 (EDT)
From: n4js@amsat.org
To: qrp-l@Lehigh.EDU
Subject: [24494] 38S Afloat!
Message-ID: <XFMail.970807160419.n4js@amsat.org>
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

I took a few minutes out from fishing to try the 38S on the SLV aboard the baot. It caught more qsos than I caught fish. Worked NH, IL and TN, no big DX, but the WORST signal report was a 579, and I got a 599 from NH! That little rig is amazing! Best \$25 I ever spent. (not mentioning the Custom Enclosure, parts for mods, the Galbraith paddles,.....as far as the XYL knows, its a "\$25 rig."

(You know, one of those "toy" rigs that you can't make "serious" contacts with.....)

Sent at 16:04:19 on 07-Aug-97

John L. Sielke n4js@amsat.org n4js@pobox.com
n4js@qsl.net NJ Grid:FM29LN
http://www.qsl.net/n4js NJ-QRP #57 QRP-L #884
QRP-ARCI #9328 CQC #443 CQrp #50
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243
WIMPS Qs=032 30m=29 17m=3 12m=0 States=09/02/00 Countries=16/02/00

Date: Fri, 08 Aug 1997 00:19:59 +0200 (EET)
From: "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
To: n5em-qrp@msn.com
Cc: qrp-1@Lehigh.EDU
Subject: [24495] RE: [HomeBrew] cutting pcb material
Message-ID: <01IM6E01PK7Y8YAAEA@vyh21.vyh.fi>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII
Content-transfer-encoding: 7BIT

> have never dulled and always cut FB. Over a long cut (say, more than 2 or 3
> inches) they will tend to impart a curl to your work, especially if it is
> narrow. For example, the side of a PC board box might be only an inch wide by
> 5 or 6 inches long. I can take a pair of pliers and give the part a reverse
> twist and remove the curl nicely. Also, I generally take the pieces and pull
> them across a big file to square up the edges after the cut.

Ed and gang,

I've been using WISS cutters that are probably intended for cutting air duct. They have two upper/outer blades and one lower blade in the middle. They cut a narrow strip out of the PC board, and that's the only part that curls. The rest of the board on both sides stays perfectly flat. Easy to make straight cuts, too.

I picked them up at a discount ages ago in a local hardware store. I don't know where I got the bright idea, but they have been a very good investment. Maybe you folks should look into that particular type of WISS shears.

73, oh2zaz

Arjen Raateland

Finnish Environment Institute, Helsinki, Finland
SAS Support
EMAIL: Arjen.Raateland@vyh.fi
tel. +358 9 4030 0457
fax +358 9 4030 0490
.-.-. -.-

Date: Thu, 07 Aug 1997 17:03:15
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@Lehigh.EDU
Subject: [24496] Re: Broadband Amp
Message-ID: <3.0.1.16.19970807170315.2557e538@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Both

>are linear (class AB1) push pull circuits and cover the entire HF spectrum.

>73, Ed, W1AAZ

>

If you build a push pull amp, be sure to spend a few extra dollars on a matched set of transistors. If you don't, it just ain't gonna work. (well, it will kinda half work)

Same is true if you have to fix a linear, even if only one transistor is bad.

RF Parts will sell most RF power transistors in matched pairs..

73, Steve KD1JV

Date: Thu, 7 Aug 1997 13:25:34 -0500
From: "William R. Moore" <wr.moore@worldnet.att.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [24497] QRP from Oshkosh fly-in
Message-ID: <19970807221306.AAA29581@wrmoore-rpc>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

My QRP operation from the huge Experimental Aircraft Association convention/fly-in in Oshkosh, WI was a personal success! Our flight up and back in a 1949 Aeronca Sedan (4-place Champ-on-steroids) was without incident. I've never made a trip that far before (560nm from Huntsville, AL) when the weather had absolutely no impact on the flight. The only exciting thing about it (of course it was all great fun) was the approach and landing at Oshkosh itself where we lined up single file with about 50 other aircraft to get in after the airshow on last Saturday evening. Wow! Airplanes everywhere. Then they had me execute the world's shortest final approach to runway 18 (surprising since they had me setup for a landing on runway 27!), slipping the solid old Aeronca down all the way!! The convention was pretty much overwhelming, with thousands of airplanes, hundreds of exhibits, 3-hour airshows each day, etc.

But back to the QRP stuff. The rig I took with me was my brand new OHR Explorer II for 40m, my even newer LDG QRP Automatic Antenna Tuner (finished the day before I left), an 8044 keyer in an Altoids box with Whiterook paddles, and a St. Louis Vertical. I had made exactly one QSO with the entire outfit, and it was with a local ham about 15 miles away. But I knew it worked! I was a bit timid about setting up the SLV, with its 4-34 ft. radials in the middle of the hundreds of antique/classic aircraft parked and camping along Whitman Field's runway 18/36. By Monday night, however, I'd guess that 70% of the campers had left (the convention ended Tuesday). So about sunset I pulled the equipment out and set it up. I don't think anyone even noticed!. I got on the air about 8:45, about half way into the Spartan Sprint. I listened a while but heard no CQ SP calls, so I generated a couple myself, and right away got a response from WZ4L who gave me a 559! Outstanding!! I was on the air for just under an hour and made 7 40m Sprint contacts from my 2-watt Explorer. I was tickled pink! This is my first camping QRP experience and it worked just great! Looking forward to QRP Afield!

Spartan Sprint summary (all on 40m)

7 QSOs

Rig weight 8.3 lbs (got to get a smaller battery)

Stations worked: WZ4L TN

N2TNN NJ

WS8D MI

N4ROA VA

N4IR TN

N4TN TN

K9DN MN

Thanks and 72/73 to all you guys!

Randy, KS4L

Date: Thu, 07 Aug 1997 18:31:04 -0400
From: Ed Pacyna <pacyna@auratek.com>
To: kd1jv@moose.ncia.net
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [24498] Re: Broadband Amp
Message-ID: <3.0.16.19970807183103.2fc76848@dingle.auratek.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 05:03 PM 8/7/97, Steven Weber wrote:

>If you build a push pull amp, be sure to spend a few extra dollars on a
>matched set of transistors. If you don't, it just ain't gonna work. (well,
>it will kinda half work)

>RF Parts will sell most RF power transistors in matched pairs..

While it is a good idea it is not absolutely necessary (the amplifier will still work). Maybe the balance (i.e. 2nd order product cancellation will be a few dB off, but still much better than a single ended amplifier). According to Motorola, matched pair are defined as DC beta being within 10% of one another.

If you have more than 2 transistors, you can determine the best matched pair yourself (with clip leads apply a little base current and measure the collector current). Note: $DC\ Beta = I_c / I_b$

Ed, W1AAZ

Date: Thu, 07 Aug 1997 15:39:29 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [24499] Re: Broadband Amp
Message-ID: <33EA4EA1.AA9@qsl.net>
Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii
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Some Digital Volt meters have a transistor test socket
that works FB for Beta measurements.

Just FYI.

-Ed Loranger

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72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

End of QRP-L Digest 811
